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Operation Manual

Multi-CD control High power Cassette player with FM/ AM tuner

KEH-P2035

English

Español

中文

العربية

SUPER TUNER

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Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, put them away in a safe place for future reference.*

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About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this product's potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this unit. It is especially important that you read and observe precautions on this page and in other sections. ▣

Precautions

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so you can hear sounds outside of the car.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.
- If this unit does not operate properly, contact your dealer or nearest authorized Pioneer Service Station. ▣
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Protecting your unit from theft

The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.

Important

- Never use force or grip the display and the buttons tightly when removing or attaching.

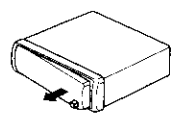
Removing the front panel

1 Press DETACH to release the front panel.

Press **DETACH** and the right side of the panel is released from the head unit.

2 Grab the front panel and remove.

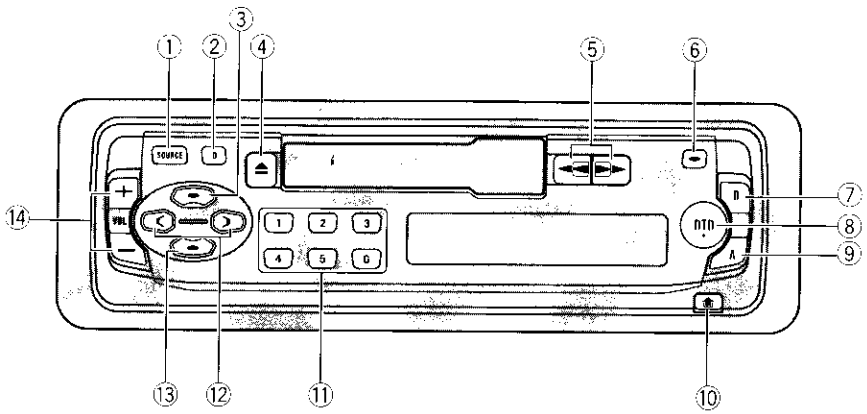
Grab the right side of the front panel and pull away to the left. The front panel will be detached from the head unit.



Attaching the front panel

1 Place the front panel flat against the head unit.

2 Press the front panel into the face of the head unit until it is firmly seated. ▣



Head unit

① **SOURCE button**
This unit is turned on by selecting a source.
Press to cycle through all of the available sources.

② **DISPLAY button**
Press to select different displays.
Also, press to control external unit.

③ **CLOCK button**
Press to change to the clock display.

④ **TAPE EJECT button**
Press to eject a tape from your cassette player.

⑤ **◄◄/►► buttons**
Press to fast forward or rewind the tape.

⑥ **LOCAL/BSM button**
Press to turn local function on or off when tuner is selected as a source.
Press and hold to turn BSM function on or off when tuner is selected as a source.
Press to turn pause on or off when multi-CD is selected as a source.
Press and hold to turn repeat on or off when multi-CD is selected as a source.
Also, press to control external unit.

⑦ **BAND button**
Press to select among three FM and one AM bands and cancel the control mode of functions.

⑧ **BTB button**
Press to select various BTB (bass treble booster) setting.

⑨ **AUDIO button**
Press to select various sound quality controls.

⑩ **DETACH button**
Press to remove the front panel from the head unit.

⑪ **1–6 buttons**
Press for preset tuning and disc number search when using a multi-CD player.
Also, press to control external unit.

⑫ **◄/► buttons**
Press to do manual seek tuning. Also used for controlling functions.

⑬ **LOUDNESS button**
Press to turn loudness on or off.

⑭ **VOLUME button**
Press to increase or decrease the volume.

Turning the unit on

● **Press SOURCE to turn the unit on.**
When you select a source the unit is turned on. ■

Selecting a source

You can select a source you want to listen to. To switch to the cassette player, load a cassette tape in this unit (refer to page 9).

● **Press SOURCE to select a source.**
Press **SOURCE** repeatedly to switch between the following sources:
Tuner—Cassette player—Multi-CD player—External unit

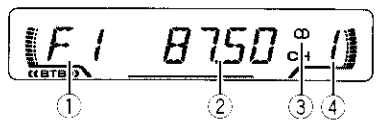
Notes

- In the following cases, the sound source will not change:
  - — When a unit corresponding to each source is not connected to this unit.
  - — When no cassette is set in this unit.
  - — When no magazine is set in the multi-CD player.
- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Only one external unit can be controlled by this unit.
- When this unit's blue/white lead is connected to the car's auto-antenna relay control terminal, the car's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. ■

Turning the unit off

● **Press SOURCE and hold until the unit turns off.** ■

Listening to the radio



① **Band indicator**
Shows which band the radio is tuned to, AM or FM.

② **Frequency indicator**
Shows to which frequency the tuner is tuned.

③ **Stereo (◌) indicator**
Shows that the frequency selected is being broadcast in stereo.

④ **Preset number indicator**
Shows what preset has been selected.

1 Press SOURCE to select the tuner.

2 Use VOLUME to adjust the sound level.
When you press **VOLUME** up/+, the volume is raised and when pressed down/–, the volume is lowered.

3 Press BAND to select a band.
Press **BAND** until the desired band is displayed. **F1**, **F2**, **F3** for FM or **AM**.

4 To perform manual tuning, press ◄ or ► with quick presses.
The frequencies move up or down step by step.

5 To perform seek tuning, press and hold ◄ or ► for about one second and release.
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by pressing either ◄ or ► with a quick press.
- If you press and hold ◄ or ► you can skip broadcasting stations. Seek tuning starts as soon as you release the buttons.

Note

When the frequency selected is being broadcast in stereo the stereo (◌) indicator will light. ■

Storing and recalling broadcast frequencies

If you press any of the preset tuning buttons **1–6** you can easily store up to six broadcast frequencies for later recall with the touch of a button.

● **When you find a frequency that you want to store in memory press a preset tuning button 1–6 and hold until the preset number stops flashing.**
The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.
The next time you press the same preset tuning button **1–6** the radio station frequency is recalled from memory.

Note

Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory. ■

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Press LOCAL/BSM to turn local seek tuning on.
LOC appears in the display.

2 When you want to return to normal seek tuning, press LOCAL/BSM to turn local seek tuning off.

Storing the strongest broadcast frequencies

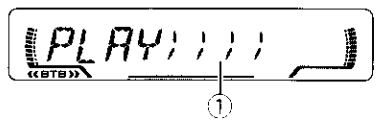
BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1–6** and once stored there you can tune in to those frequencies with the touch of a button.

- **Press LOCAL/BSM and hold until the BSM turns on.**
BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning buttons **1–6** in order of their signal strength. When finished, **BSM** stops flashing.
  - To cancel the storage process, press **LOCAL/BSM**.

Note

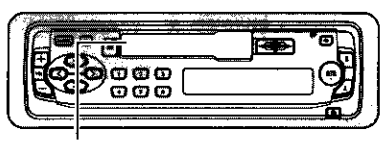
Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using **1–6**.

Playing a tape



1 Tape direction indicator
Shows the direction of the tape transport.

1 Insert a cassette tape into the cassette loading slot.
Playback will automatically start.



Cassette loading slot

- You can eject a cassette tape by pressing **TAPE EJECT**.

2 After a cassette tape has been inserted, press SOURCE to select the cassette player.
Press **SOURCE** until cassette player is selected as the source.

3 Use VOLUME to adjust the sound level.
When you press **VOLUME** up/+, the volume is raised and when pressed down/–, the volume is lowered.

4 To perform fast forward or rewind, press ◄◄ or ►►.
- You can cancel fast forward or rewind by pressing ◄◄ or ►► in the opposite direction lightly.

5 To change the direction of the tape transport, press ◄◄ and ►► simultaneously.

Note

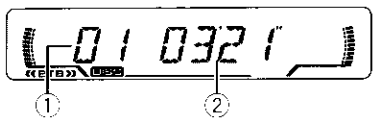
Do not insert anything other than a cassette tape into the cassette loading slot.

Radio intercept

Radio intercept allows you to listen to the radio during tape fast-forwarding/rewinding.

- **Press 6 to turn radio intercept on or off.**

Playing a CD



You can use this unit to control a multi-CD player, which is sold separately.

① **Disc number indicator**
Shows the disc currently playing.

② **Play time indicator**
Shows the elapsed playing time of the current track.

1 Press SOURCE to select the multi-CD player.

2 Use VOLUME to adjust the sound level.
When you press **VOLUME** up/+, the volume is raised and when pressed down/–, the volume is lowered.

3 Select a disc you want to listen to with the 1–6 buttons.
For discs located at 1 to 6, press the corresponding number button.
If you want to select a disc located at 7 to 12, press and hold the corresponding numbers such as **1** for disc 7, until the disc number appears in the display.

4 To perform fast forward or reverse, press and hold ◄ or ►.

5 To skip back or forward to another track, press ◄ or ►.
Pressing ► skips to the start of the next track. Pressing ◄ once skips to the start of the current track. Pressing again will skip to the previous track.

Notes

- When the multi-CD player performs the preparatory operations, **READY** is displayed.
- If the multi-CD player does not operate properly, an error message such as **ERROR-11** may be displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, **NO DISC** is displayed. ▣

Changing the display

You can change the display.

● **Press DISPLAY to switch the display.**
Press **DISPLAY** repeatedly to switch the display in the following order:
Disc number and track number — Disc number and play time ▣

Repeating play

There are three repeat play ranges for the multi-CD player: **MCD** (multi-CD player repeat), **TRK** (one-track repeat) and **DSC** (disc repeat).

● **Press and hold LOCAL/BSM repeatedly to select the desired repeat range.**
- **MCD** – Repeat all discs in the multi-CD player
- **TRK** – Repeat just the current track
- **DSC** – Repeat the current disc

Notes

- If you select other discs during repeat play, the repeat play range changes to **MCD**.
- If you perform track search or fast forward/reverse during **TRK**, the repeat play range changes to **DSC**. ▣

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

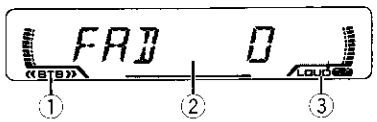
1 Press LOCAL/BSM to turn pause on.
PAUSE appears in the display. Play of the current track pauses.

2 Press LOCAL/BSM to turn pause off.
Play will resume at the same point that you turned pause on. ▣

50-disc multi-CD player

50-disc multi-CD players can not be operated with this unit. ▣

Introduction of audio adjustments



① **BTB indicator**
Shows when the BTB other than **FLAT** is selected.

② **Audio display**
Shows the audio adjustments status.

③ **LOUD indicator**
Appears in the display when loudness is turned on.

● **Press AUDIO to display the audio function names.**
Press **AUDIO** repeatedly to switch between the following audio functions:
FAD (balance adjustment)—**BAS** (bass adjustment)—**TRE** (treble adjustment)—**LOUD** (loudness)—**SLA** (source level adjustment)
- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- To return to the display of each source, press **BAND**.

Note

If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Press AUDIO to select FAD.
Press **AUDIO** until **FAD** appears in the display.
- If the balance setting has been previously adjusted, **BAL** will be displayed.

2 Press VOLUME up/+ or down/– to adjust front/rear speaker balance.
Each press of **VOLUME** up/+ or down/– moves the front/rear speaker balance towards the front or the rear.
FAD F15 – **FAD R15** is displayed as the front/rear speaker balance moves from front to rear.
- **FAD 0** is the proper setting when only two speakers are used.

3 Press ◄ or ► to adjust left/right speaker balance.
When you press ◄ or ►, **BAL 0** is displayed.
Each press of ◄ or ► moves the left/right speaker balance towards the left or the right.
BAL L 9 – **BAL R 9** is displayed as the left/right speaker balance moves from left to right.

Using the BTB (bass treble booster)

There are five stored BTB settings such as **DYNAMIC**, **POWER**, **MAX**, **CUSTOM** and **FLAT** that can easily recall at any time.
- **CUSTOM** is an adjusted BTB setting that you create.
- When **FLAT** is selected no supplement or correction is made to the sound. This is useful to check effect of the BTB settings by switching alternatively between **FLAT** and set BTB setting.

● **Press BTB to select the desired BTB setting.**
Press **BTB** repeatedly to switch between the following BTB setting:
MAX—**CUSTOM**—**FLAT**—**DYNAMIC**—**POWER**

Adjusting BTB

You can adjust the currently selected BTB setting as desired. Adjusted BTB settings are memorized in **CUSTOM**.

Adjusting bass

You can adjust the bass level.

1 Press AUDIO to select BAS.
Press **AUDIO** until **BAS** appears in the display.

2 Press VOLUME up/+ or down/– to adjust the bass level.
Each press of **VOLUME** up/+ or down/– increases or decreases the bass level. **+6** – **–6** is displayed as the level is increased or decreased.

Adjusting treble

You can adjust the treble level.

1 Press AUDIO to select TRE.
Press **AUDIO** until **TRE** appears in the display.

2 Press VOLUME up/+ or down/– to adjust the treble level.
Each press of **VOLUME** up/+ or down/– increases or decreases the treble level. **+6** – **–6** is displayed as the level is increased or decreased.

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Press AUDIO to select LOUD.
Press **AUDIO** until **LOUD** appears in the display.

2 Press VOLUME up/+ to turn loudness on.
LOUD indicator is displayed.
- To turn loudness off, press **VOLUME** down/–.

3 Press ◄ or ► to select a desired level.
Each press of ◄ or ► selects level in the following order:
LOW (low)—**HI** (high)

Note

You can also turn loudness on or off by pressing **LOUDNESS**.

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.
- Settings are based on the volume level of the FM tuner, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

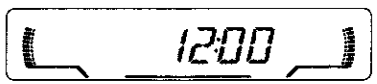
2 Press AUDIO to select SLA.
Press **AUDIO** until **SLA** appears in the display.

3 Press VOLUME up/+ or down/– to adjust the source volume.
Each press of **VOLUME** up/+ or down/– increases or decreases the source volume.
SLA +4 – **SLA –4** is displayed as the source volume is increased or decreased.

Notes
- Since the FM tuner volume is the control, it is not possible to apply source level adjustments to the FM tuner.
- The AM tuner volume level can also be adjusted with source level adjustments.

English

Adjusting initial settings



Initial settings lets you perform initial set up of different settings for this unit.

1 Press SOURCE and hold until the unit turns off.

2 Press AUDIO and hold until clock appears in the display.
Press **AUDIO** repeatedly to switch between the following settings:
Clock—**STEP** (FM tuning step)—**STEP** (AM tuning step)
Use the following instructions to operate each particular setting.

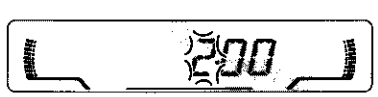
- To cancel initial settings, press **BAND**.
- You can also cancel initial settings by holding down **AUDIO** until the unit turns off.

Setting the clock

Use these instructions to set the clock.

1 Press AUDIO to select clock.
Press **AUDIO** repeatedly until clock appears in the display.

2 Press ◄ or ► to select the segment of the clock display you wish to set.
Pressing ◄ or ► will select one segment of the clock display:
Hour—Minute
As you select segments of the clock display the segment selected will blink.



3 Press VOLUME up/+ or down/– to set the clock.
Pressing **VOLUME** up/+ will increase the selected hour or minute. Pressing **VOLUME** down/– will decrease the selected hour or minute.

Setting the FM tuning step

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.

1 Press AUDIO to select STEP.
Press **AUDIO** repeatedly until **STEP** appears in the display.

2 Press ◄ or ► to select the FM tuning step.
Pressing ◄ or ► will switch the FM tuning step between 100 kHz and 50 kHz. The selected FM tuning step will appear in the display.

Note

If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.

Setting the AM tuning step

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 – 1,602 kHz allowable) to 10 kHz (530 – 1,640 kHz allowable).

1 Press AUDIO to select STEP.
Press **AUDIO** repeatedly until **STEP** appears in the display.

2 Press ◄ or ► to select the AM tuning step.
Pressing ◄ or ► will switch the AM tuning step between 9 kHz and 10 kHz. The selected AM tuning step will appear in the display.

Turning the clock display on or off

You can turn the clock display on or off.

● Press CLOCK to turn the clock display on or off.

Each press of **CLOCK** turns the clock display on or off.

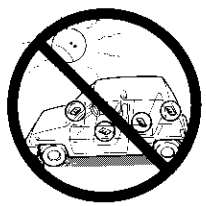
▪ The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds. [■]

Cassette player

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Be sure to eject tape when the vehicle's ignition is turned off. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback. [■]

Cassette tapes

- Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
- A loose, torn or warped label on a cassette tape can jam the cassette player. Do not use cassette tapes with loose, torn or warped labels.
- Cassette tapes longer than C-90 (90-minute tapes) can cause the tape to jam in the cassette player. Do not use tapes longer than C-90.
- Cassette tapes exposed to high temperatures may warp and jam the cassette player. Keep cassettes out of direct sunlight or places where there are high temperatures.



- Store unused tapes in a tape case where there is no danger of them becoming loose, dirty or dusty. [■]

Cleaning the playback head

If the head becomes dirty, the sound quality will get bad and there will be sound dropouts and other problems. If you have any of these problems the head may need cleaning. [■]

Specifications

General

Rated power source	14.4 V DC (allowable voltage range: 12.0 – 14.4 V DC)
Grounding system	Negative type
Max. current consumption	8.5 A
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 155 mm
Nose	188 × 58 × 20 mm
D	
Chassis	178 × 50 × 160 mm
Nose	170 × 48 × 15 mm
Weight	1.4 kg

Audio

Continuous power output is 20 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.

Maximum power output	45 W × 4
Load impedance	4 Ω (4 – 8 Ω allowable)
Preout max output level/output impedance	2.2 V/1 kΩ
Bass/Treble:	
Bass	
Frequency	100 Hz
Gain	±12dB
Treble	
Frequency	10k Hz
Gain	±12dB
Loudness contour	
Low	+7 dB (100 Hz), +4 dB (10 kHz)
High	+10 dB (100 Hz), +6.5 dB (10 kHz) (volume: –30 dB)

Cassette player

Tape	Compact cassette tape (C-30 – C-90)
Tape speed	4.8 cm/sec
Fast forward/rewinding time	Approx. 100 sec (C-60)
Wow & flutter	0.13 % (WRMS)
Frequency response	30 – 16,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	52 dB (IEC-A network)

FM tuner

Frequency range	87.5 – 108.0 MHz
Usable sensitivity	11 dBf (1.1 μV/75 Ω mono, S/N: 30 dB)
50 dB quieting sensitivity	17 dBf (2.2 μV/75 Ω mono)
Signal-to-noise ratio	58 dB (IEC-A network)
Distortion	0.5 % (at 65 dBf, 1 kHz, stereo)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	24 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range	531 – 1,602 kHz (9 kHz) 530 – 1,640 kHz (10 kHz)
Usable sensitivity	20 μV (S/N: 20 dB)
Selectivity	50 dB (±9 kHz) 50 dB (±10 kHz)

Note

Specifications and the design are subject to possible modifications without notice due to improvements. [■]